Amendments to the Specification

Please replace the paragraph numbered **[0236]** beginning at page 66, line 14, with the following rewritten paragraph:

— **[0236]** The following procedure can be used to compute the worst-case response time of each A-h-k-a process:

i:= 0;

failure:= false;

while i number-of-A-h-k-a-processes and not (failure) do

begin

  if a_i A-h-k-a

  then

  begin

    RE_{newi}:= c_{ai};

    responsetimefound:= false;

    while not(responsetimefound) and not(failure) do

    begin

      $RE_{previousi}$:= RE_{newi};

      RE_{newi}:= $\underline{c_{ai}}$ + DelayA(a_i, $RE_{previousi}$) + DelayP((a_i, $RE_{previousi}$)

                + B(a_i) + GT(a_i, $RE_{previousi}$);

      if $RE_{previousi}$ = RE_{newi}

      then

      begin

        RE_{ai}:= RE_{newi};

        responsetimefound:= true;

      end

      if (RE_{newi} > L_{ai})

      then failure:= true;

    end;

  end;

i:= i + 1;

end. —

Please replace the paragraph numbered **[0372]** beginning at page 122, line 14, with the following rewritten paragraph:

— **[0374]** The following procedure can be used to compute the worst-case response time of each A-s-k process:

i:= 0;

failure:= false;

while i number-of-A-s-k-processes and not (failure) do

begin

if a_i A-s-k

then

begin

RE_{newi}:= c_{ai};

responsetimefound:= false;

while not(responsetimefound) and not(failure) do

begin

$RE_{previousi}$:= RE_{newi};

RE_{newi}:= $\underline{c_{ai}}$ + DelayA(a_i, $RE_{previousi}$) + DelayP((a_i, $RE_{previousi}$)

+ B(a_i);

if $RE_{previousi}$ = RE_{newi}

then

begin

RE_{ai}:= RE_{newi};

responsetimefound:= true;

end

if (RE_{newi} > responsetimelimit)

then failure:= true;

end;

```
        end;
    i:= i + 1;
end. —
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